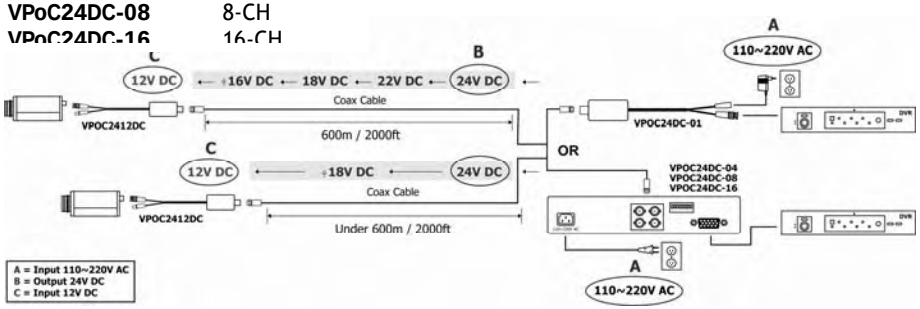
PoE Midspan with Built-in Power Injector

PMI-004F
- 15.4W max. / port
- IEEE 802.3af Compliant
- Input: 110V~220V AC
- Output: 48V DC

PMI-004T
- 34.2W max. / port – High Power
- IEEE 802.3af Compliant
- Input: 110V~220V AC
- Output: 48V DC

Video & Power Over Coax – Power Guarantee

VPoC2412DC	Camera Side
VPoC24DC-01	1-CH
VPoC24DC-04	4-CH
VPoC24DC-08	8-CH
VPoC24DC-16	16-CH



3.5" TFT LCD CCTV Service Viewer
LCD35SV

A Must Have & Practical Tool for
Security Projects and Maintenance Technicians!

- 6 Hours Long Operation Time
- Display format 320 RGB x 240
- Provide power to 12V DC camera
- Wristband allows hands-free usage
- Battery save sleep mode
- Lithium Battery: 3.7V DC, 2200mA

The Best Quality of Major Components Extend this products' Life Span:
TFT LCD Module **Made in Taiwan by ChiMei**
Rechargeable Lithium Battery **Made in Japan by Sanyo**

User Manual – Data Sheet

PoE Over Coax Extender Kit

PoEoC-15K

PoEoC-15-HOST

Host Unit - PSE Side

PoEoC-15-D

Device Unit – PD Side

Features:

This is a preliminary specification for "PoE extender over coax" solution. By using our novel RF technology, you can extend the transmission distance of power and Ethernet signal up to 200~300m / 600ft~900ft over coaxial cable. The PoE power and signal from PoE switch or PoE injector fed into the **Powered Sourcing Equipment (PSE)**, **PoEoC-15-HOST**, and transmitted over coaxial cable. The **Powered Device (PD), PoEoC-15-D**, receives the signal and power from coaxial cable and converts it back to a PoE interface. This solution allow user to provide 200~300m PoE link with a simple, reliable and cost-effective method.

Packing List:

- One (1) PoE Over Coax Extender Device Unit
- One (1) PoE Over Coax Extender Host Unit
- One (1) Manual – Data Sheet

* For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing/damaged.

⚠ Cautions:

- Do not connect this device to any power source.
- Do not handle the unit with wet hands.
- The unit is not waterproof and should not be used outdoors.

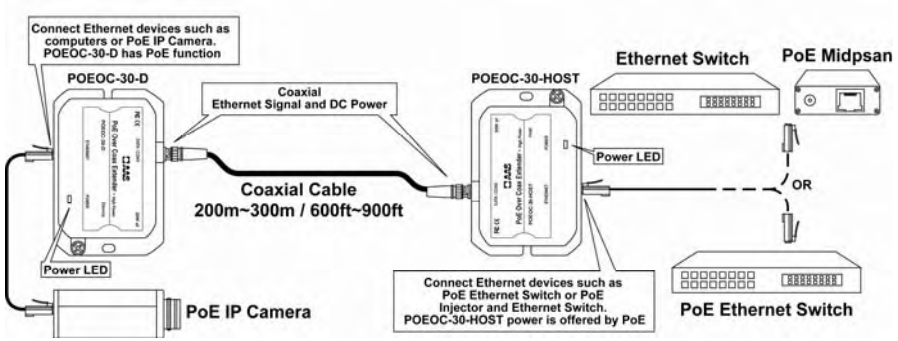
Installation:

1. First, plug the **PoEoC-15-D** network connector into the Ethernet port on your IP Camera.
2. Connect a coaxial cable between the **PoEoC-15-HOST** and the **PoEoC-15-D**.
3. Connect **PoEoC-15-HOST** Ethernet cable into the Ethernet port on your PoE Ethernet Switch or PoE Injector and Ethernet Switch.

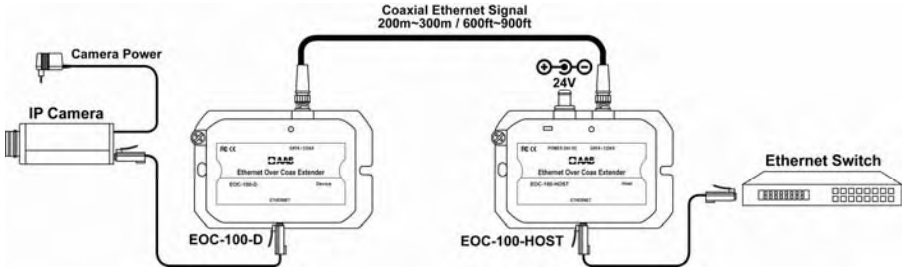
LED Status:
A green solid light indicates a proper connection to the power supply.

Related Products:

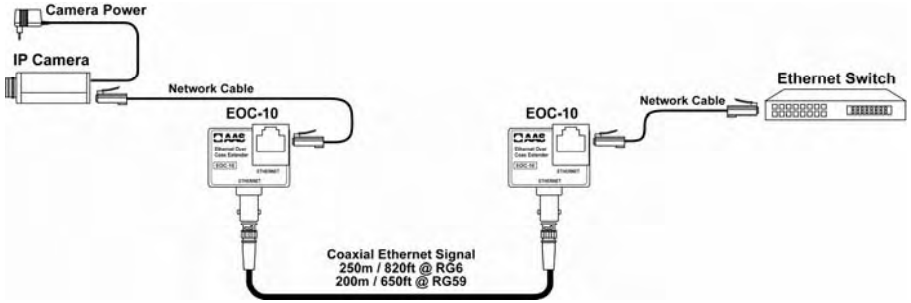
High Power PoE Over Coax Extender Kit
PoEoC-30K


Connect Ethernet devices such as computers or PoE IP Camera. POEOC-30-D has PoE function
POEOC-30-D
Coaxial Ethernet Signal and DC Power
POEOC-30-HOST
Ethernet Switch
PoE Midpsan
Power LED
Coaxial Cable
200m~300m / 600ft~900ft
OR
Power LED
PoE IP Camera
Connect Ethernet devices such as PoE Ethernet Switch or PoE Injector and Ethernet Switch. POEOC-30-HOST power is offered by PoE
PoE Ethernet Switch

Ethernet Over Coax Extender Kit – 10/100Mbps
EoC-100K



Ethernet Over Coax Extender -10Mbps
EoC-10P



1. 30W PoE injector: PD-7001G 55V, 0.57A
2. 15.4W 802.3af SW: Standard POE Switch, 48V/375mA
3. Cable DC Resistance = DC Resistance of Cable Inner conductor + DC Resistance of Cable Shield
4. Typically, regular resistance of RG6 is 13 Ω /100m
5. Typically, regular resistance of RG59 is 17 Ω /100m
6. Typically, regular resistance of RG11 is 4.9 Ω /100m
7. Resistance of Low resistance RG6 such as WC5CFB16-200H is 3.7 Ω /100m
8. Resistance of Low resistance RG11 such as WC7CFB-A is 2.4 Ω /100m
9. DC cable resistance should include LAN UTP cable, 10Ω/100m (for standard PoE interface, CAT5e)

LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS

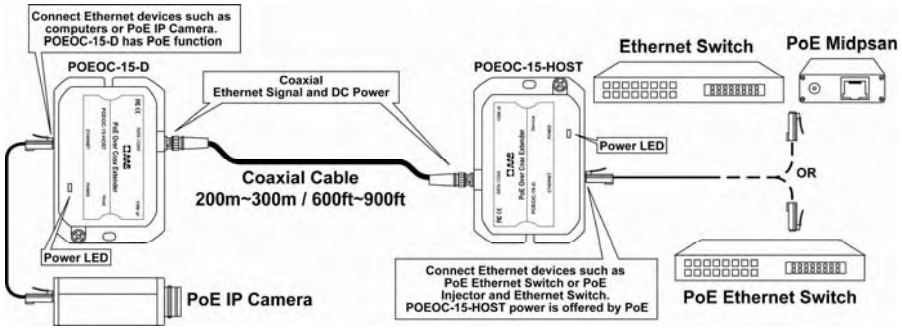
Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date. Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. **There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose**, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warrant, including merchantability and fitness of or a particular purpose, is limited to one (1) year. **Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation.** The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

Troubleshooting:

⚠ **WARNING – Do not apply power to the device unit. You will damage the unit and void warranty!**

Symptom	Solution
LED light does not have solid green light	Make sure you are using the correct type of power adapter and that it is properly plugged into the power outlet and into the PSE side unit. Also make sure that the coax is properly connected to the PoE PD side.
LED light is "ON" for both units but does not blink	1. Make sure the Ethernet cable is properly connected to the units on both ends. 2. Make sure the PoE equipment on the PSE side is turned on, connected and rated high enough to power your PoE device.
Speed is not what I expected	Make sure you are using the correct rated cable and for maximum performance (See technical specifications)

Application Diagram: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OR
Coaxial Cable
200m~300m / 600ft~900ft
Power LED
PoE IP Camera
Connect Ethernet devices such as PoE Ethernet Switch or PoE Injector and Ethernet Switch. POEOC-15-HOST power is offered by PoE
PoE Ethernet Switch

Technical Specifications:

Kit Model		PoEoC-15K	
Model		PoEoC-15-HOST	PoEoC-15-D
Unit Type		Host Unit – PSE Side	Device Unit – PD Side
Interface	Data + Power Port	1x RJ-45 female connector (IN)	1x RJ-45 female connector (OUT)
	Data + Power Port	1x Female BNC (OUT)	1x Female BNC (IN)
	Cable	RG6/RG11/RG59 video-grade coaxial cable (used for CATV)	
Electrical	Standard	IEEE 802.3af	
	Speed	10/100Mbps for full duplexer	
	Ethernet Cable	<= 2m / 6.5ft STP (shielded) cable at PoEoC-15-HOST <= 100m / 328ft UTP cable at PoEoC-15-D	
	Transmission distance	300m / 900ft @ RG6 coaxial cable 300m / 900ft coax cable + 100m / 328ft UTP cable	
Power	Powered by PoE	YES	
	Input Operating Voltage	42~57V DC @ RJ45 female connector	37~57V DC @ BNC Female connector
	Output Voltage	40~56V DC @ BNC Female connector	36~56V DC @ RJ45 female connector
	Remote Powering ability	---	Max. 15.4W
	Power consumption	<= 1 W	<= 2.5W
Environment	Operating Temperature	-10°C ~ +60°C / 14°F ~ 140°F	
Physical Properties	Enclosure material	Aluminum alloy	
	Mounting	Wall mounting available	
	Dimension WxHxD	112 x 31.5 x 72 mm / 4.4 x 1.2 x 2.8 inches	

*Specifications are subject to change without notice

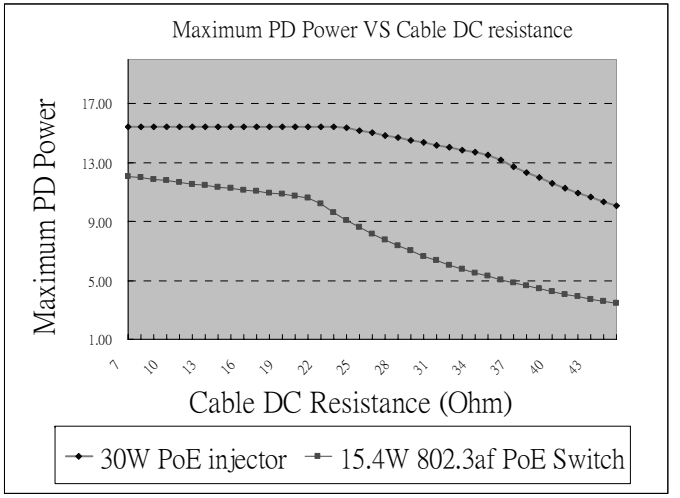

Fig.1 Maximum PD power v.s. cable DC resistance

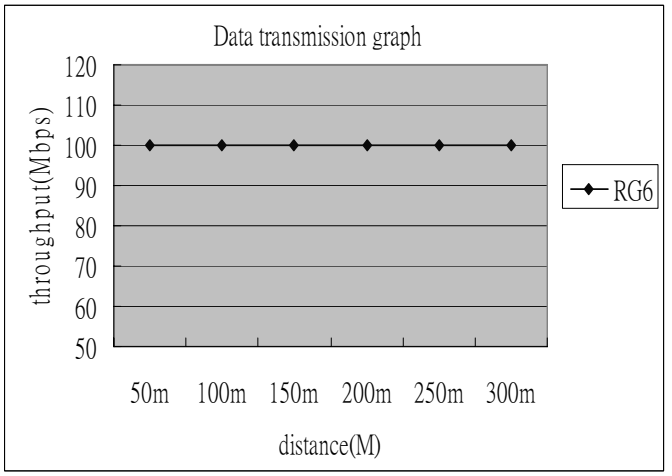

Fig.2. Data transmission